

FIG. 1 PRIOR ART

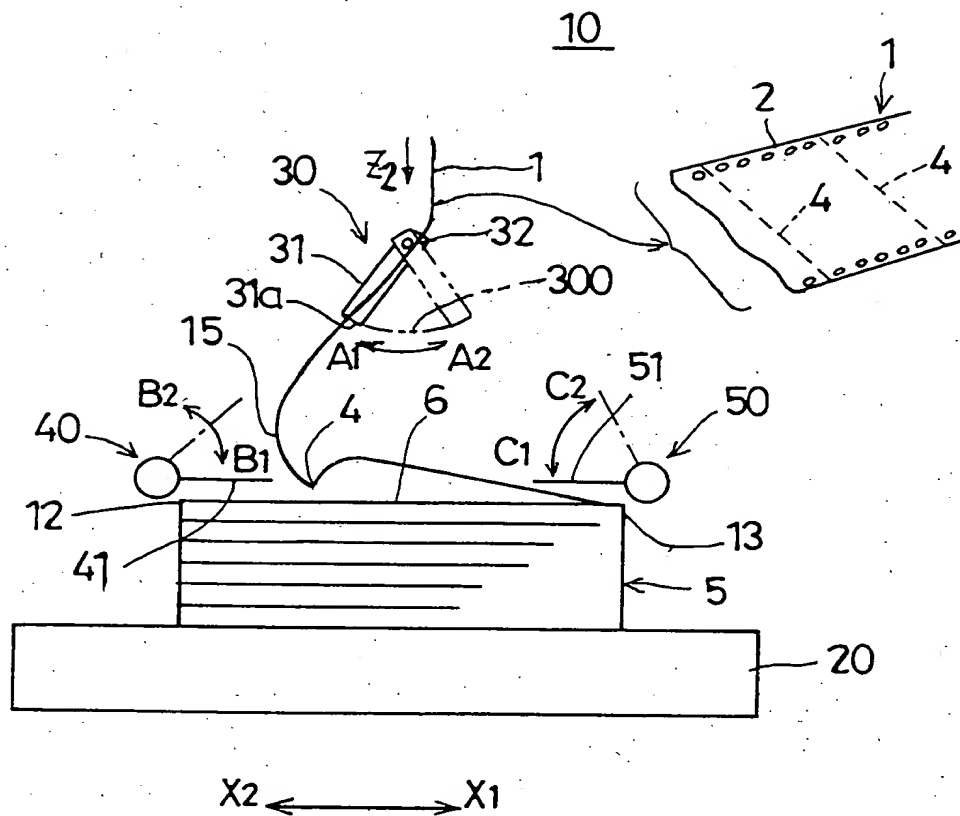
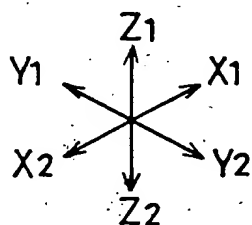
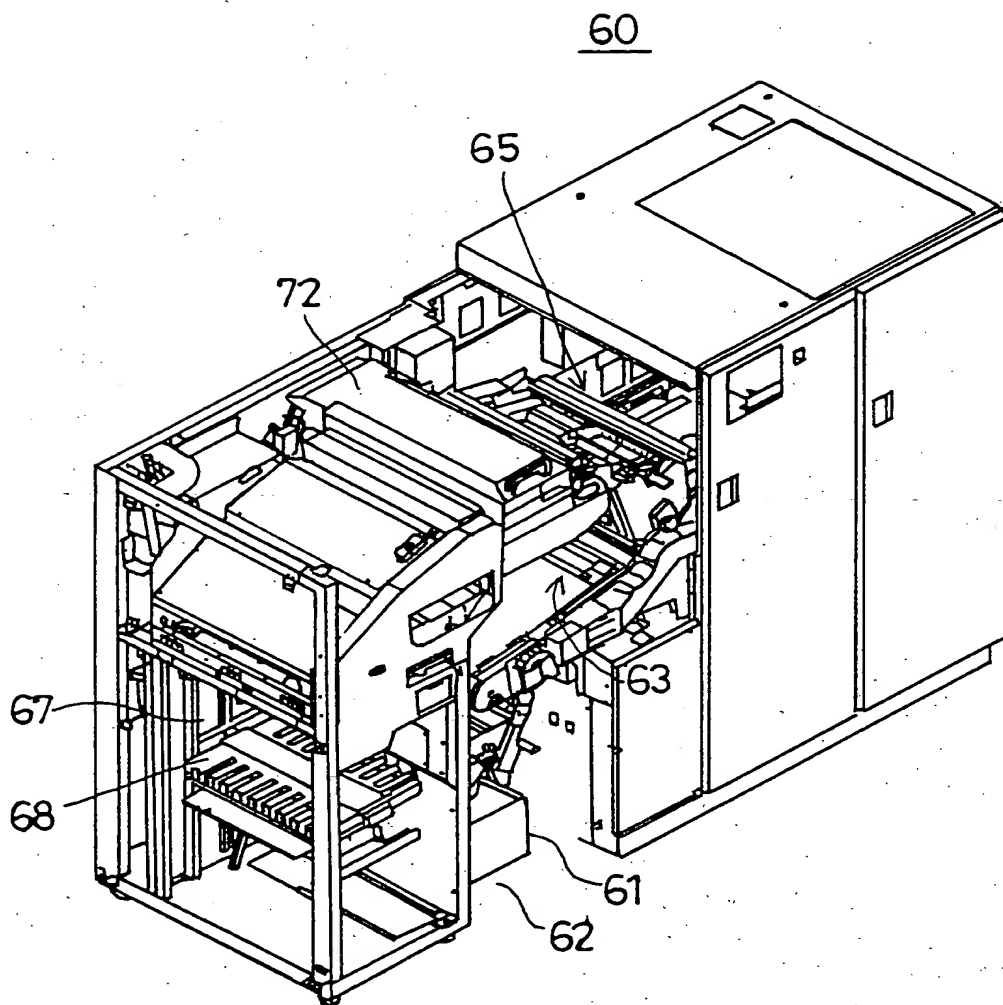


FIG. 2



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FIG. 3

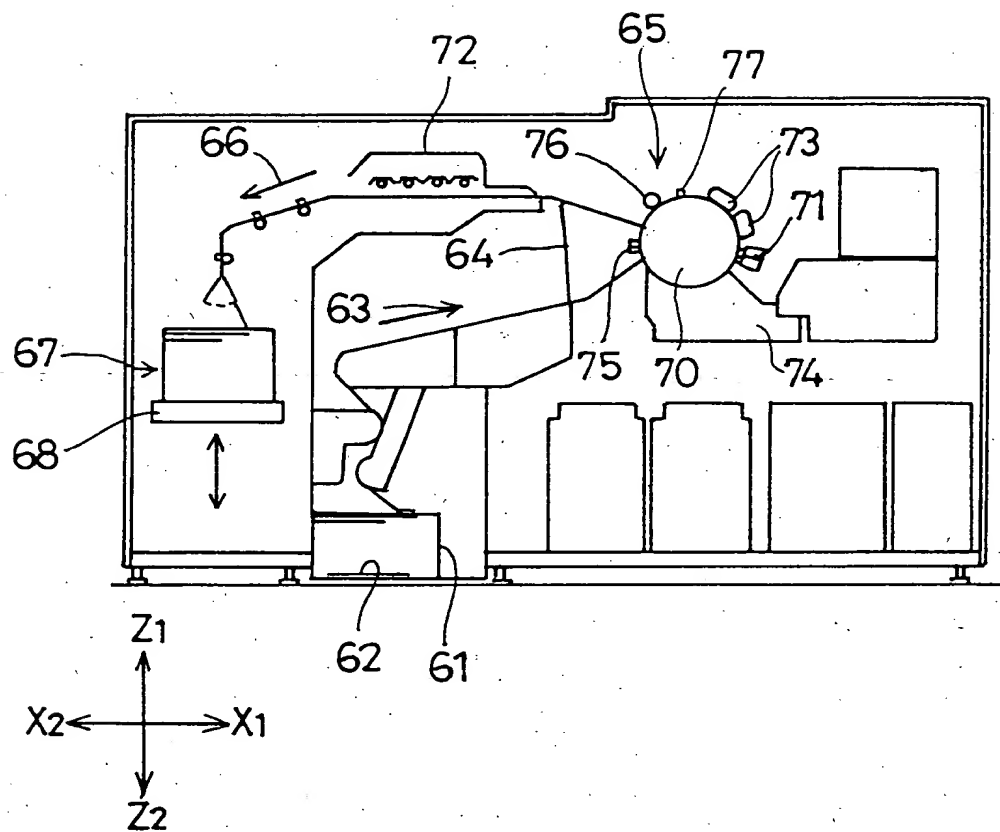


FIG. 4

80

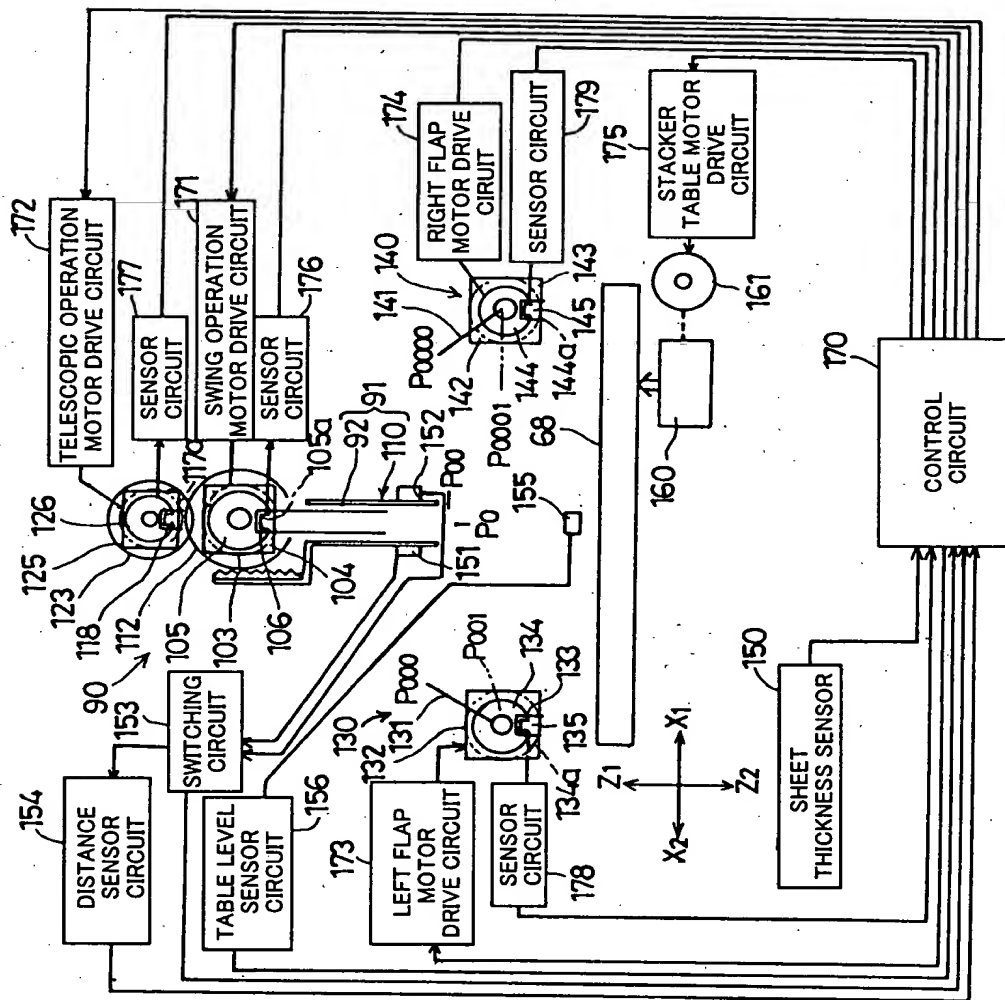


FIG. 5A

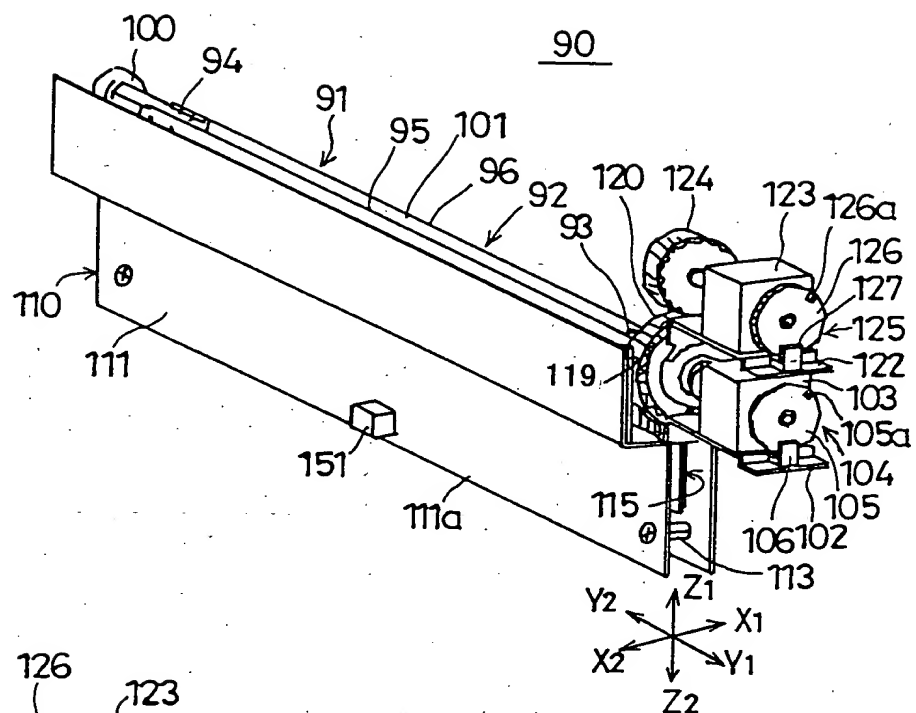


FIG. 5B

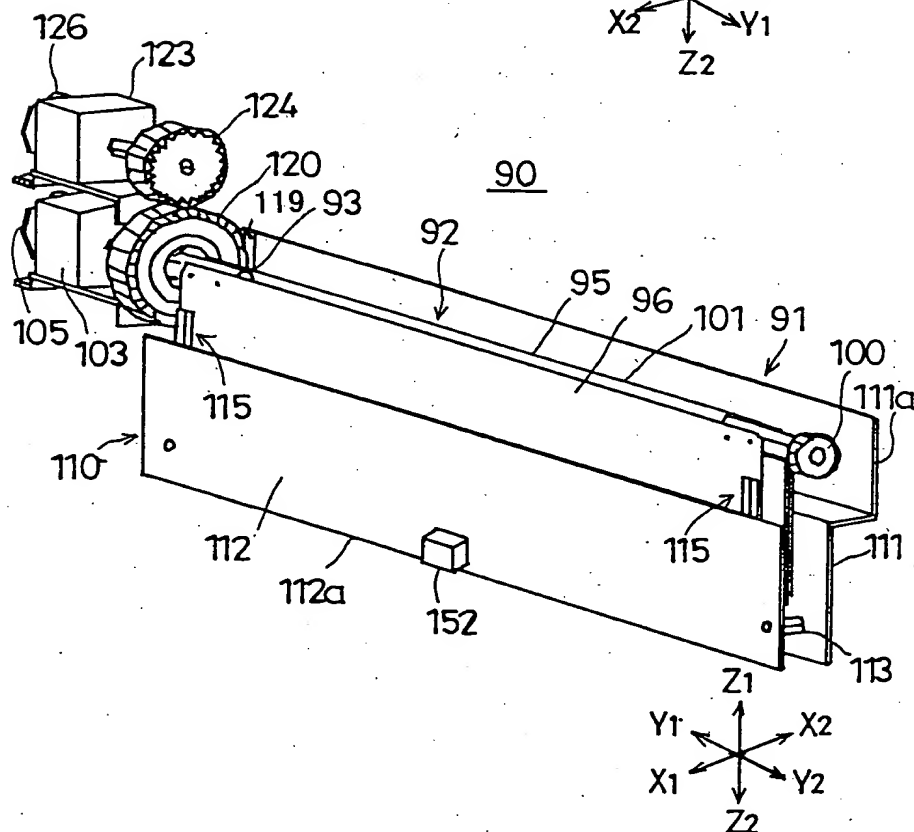


FIG. 6

90

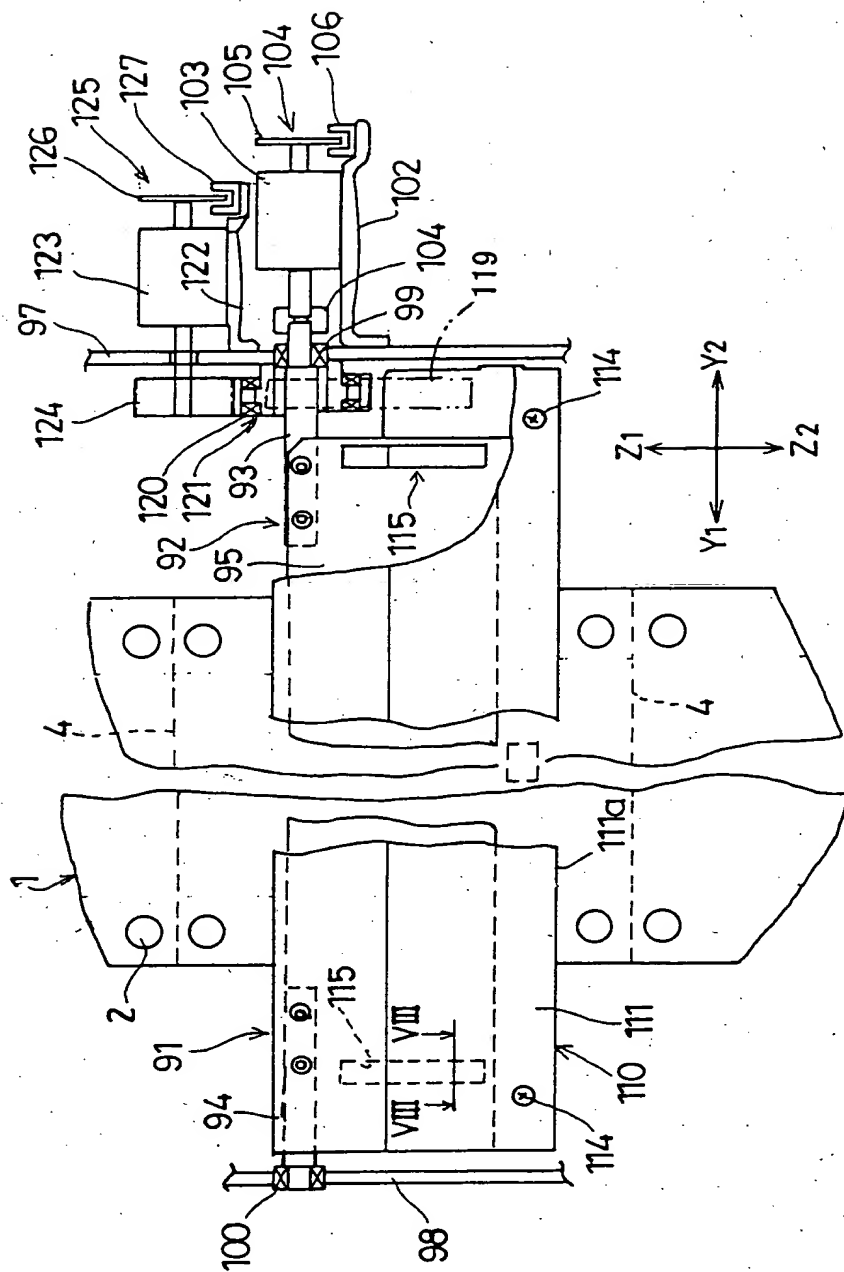


FIG. 8

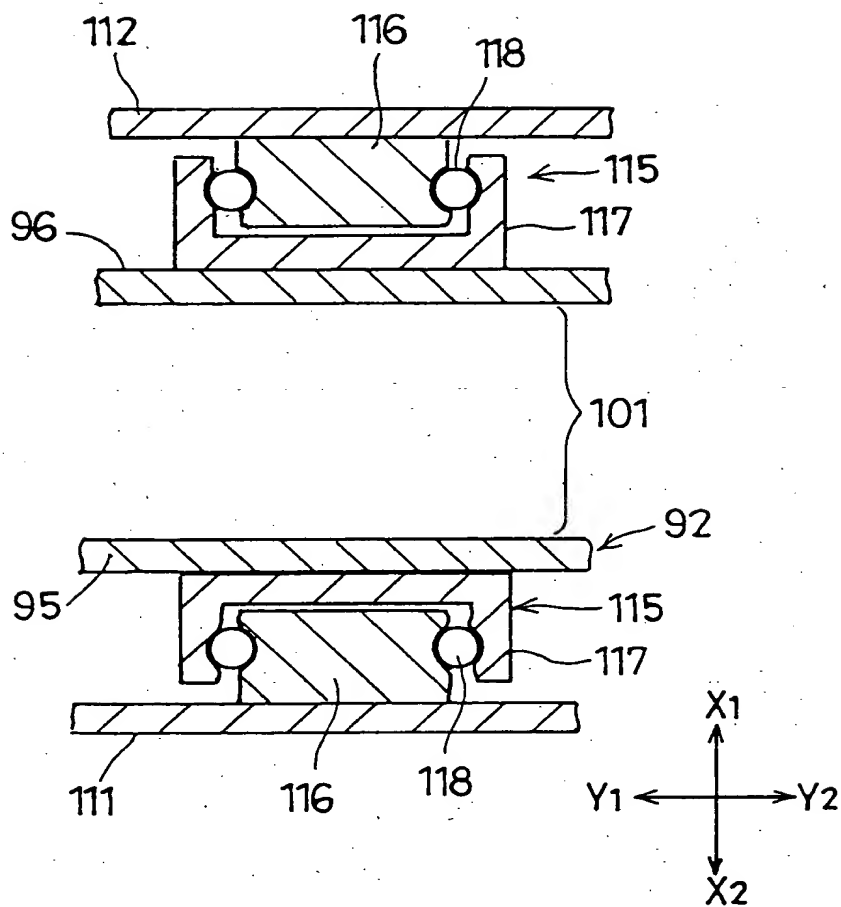


FIG. 9

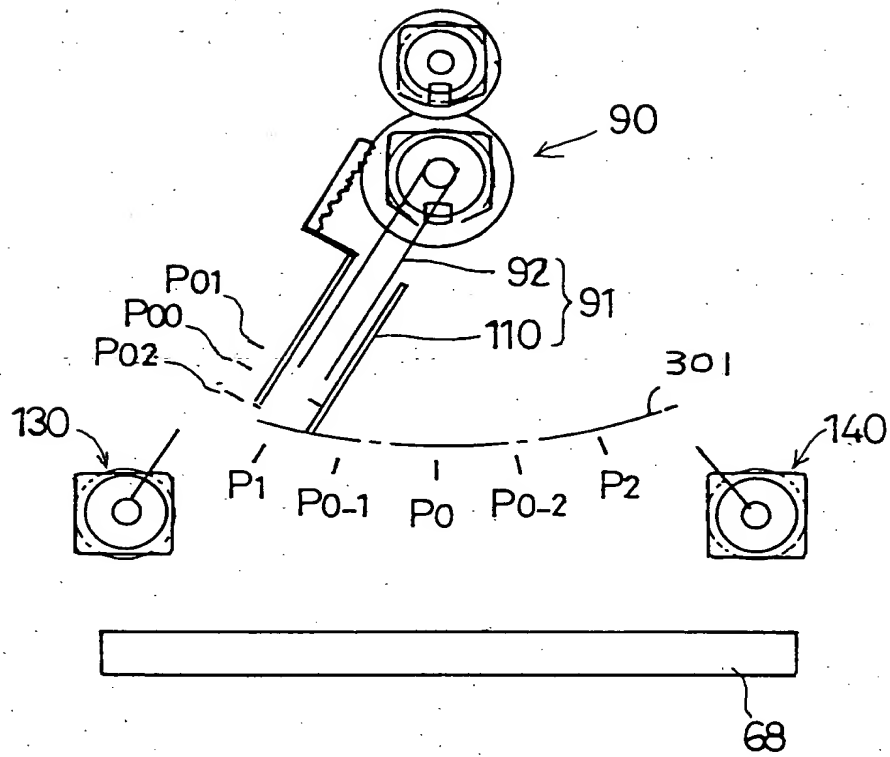
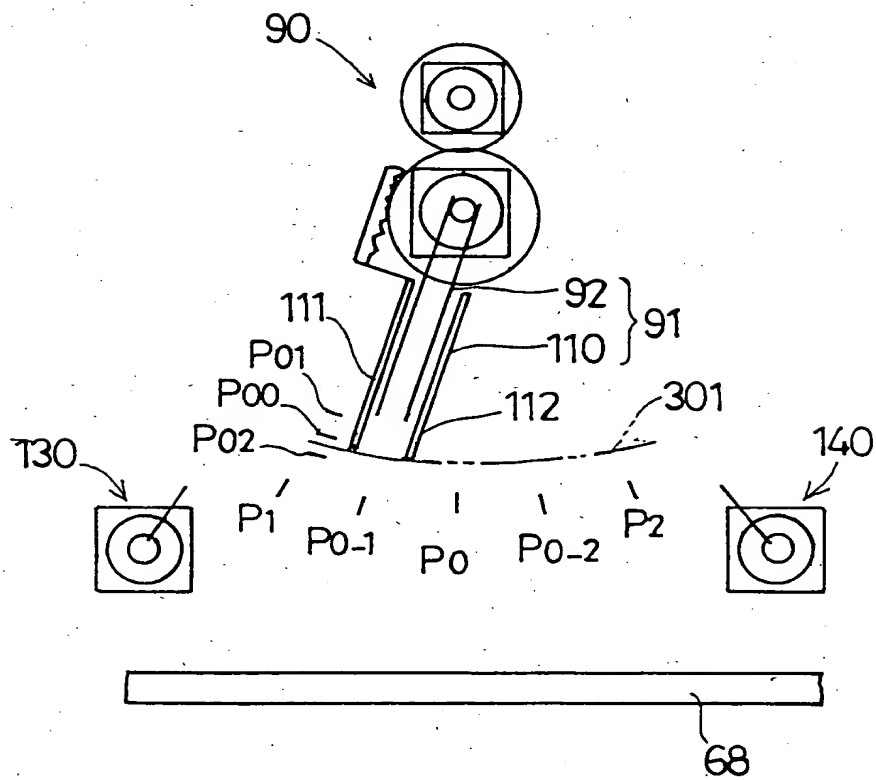


FIG. 10



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FIG. 11

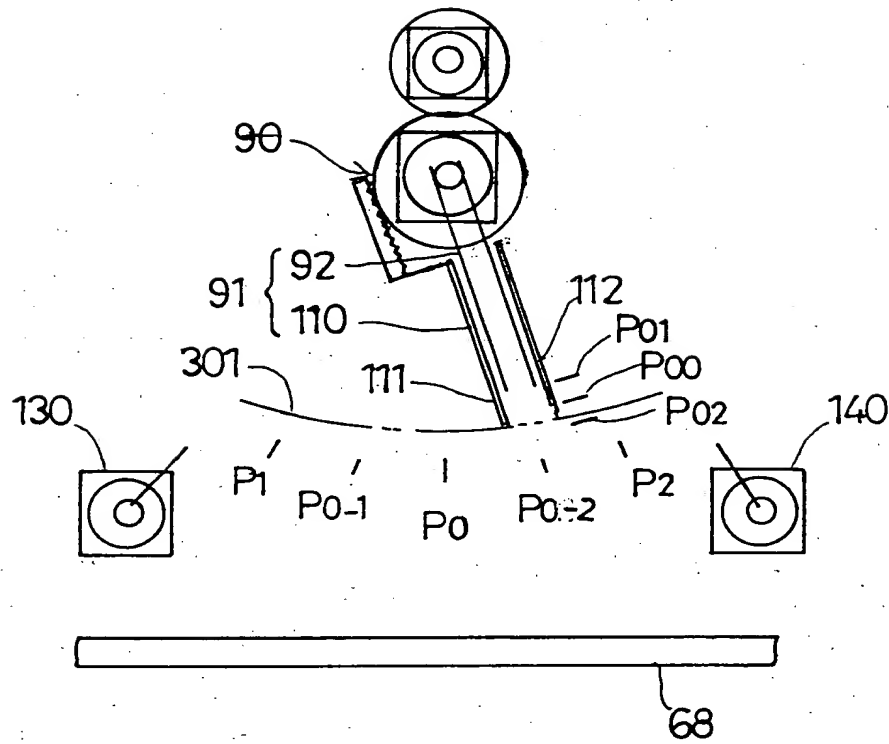


FIG. 12

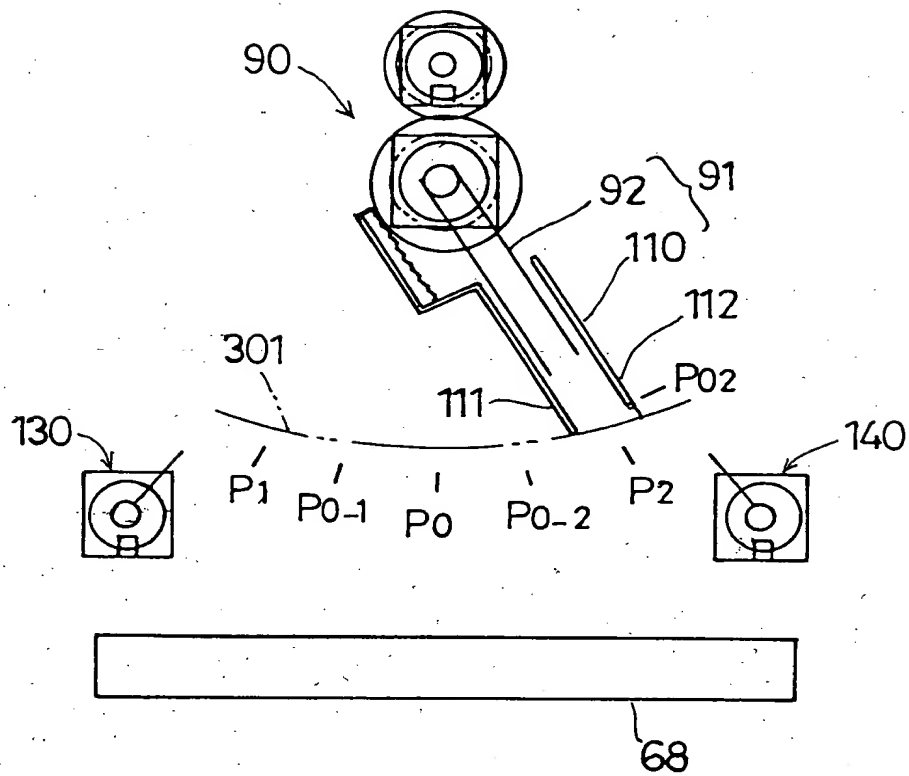


FIG. 13A

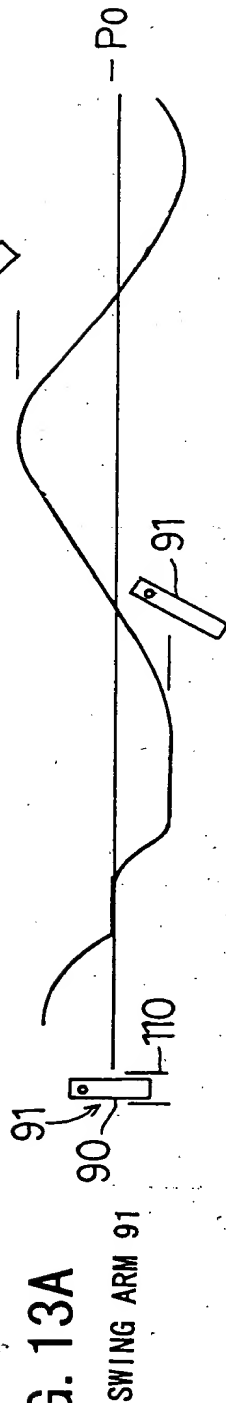


FIG. 13B

HOME POSITION DETECTING
MECHANISM 104

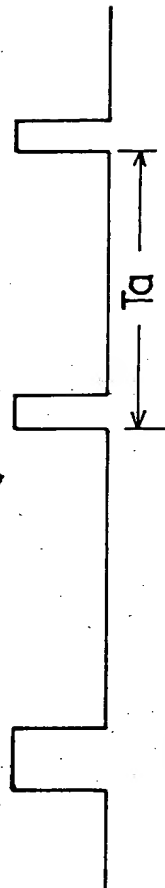


FIG. 13C

SUB-ARM 110

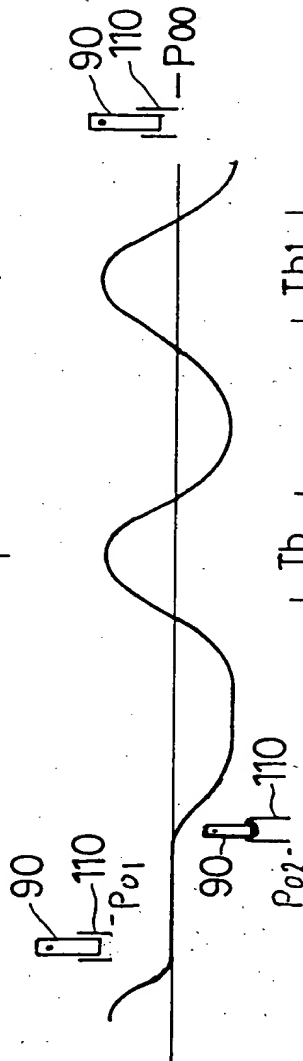
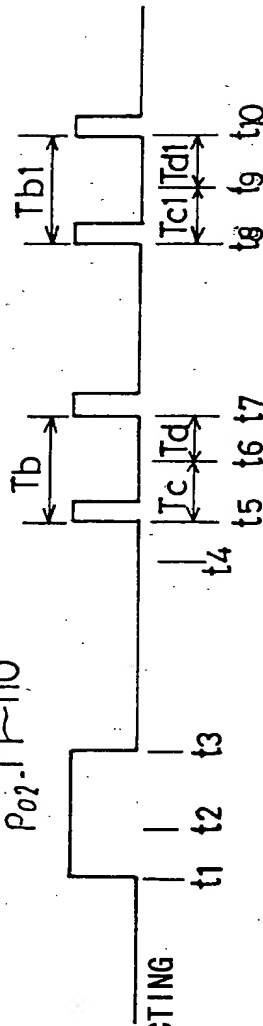


FIG. 13D

HOME POSITION DETECTING
MECHANISM 125



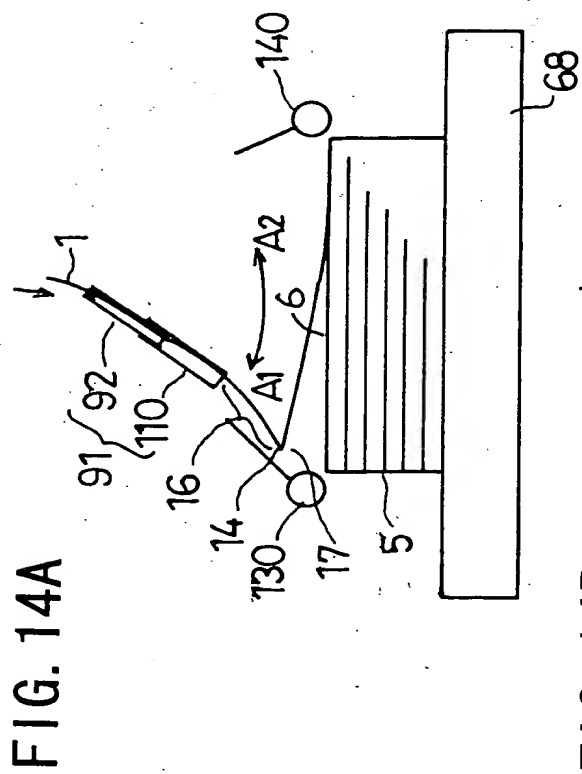


FIG. 14A

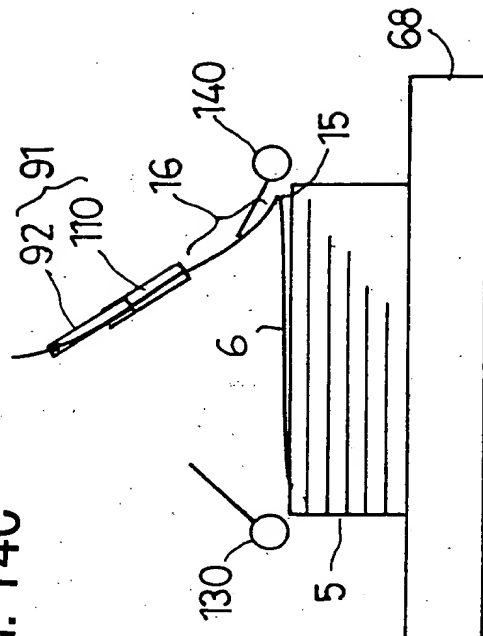


FIG. 14C

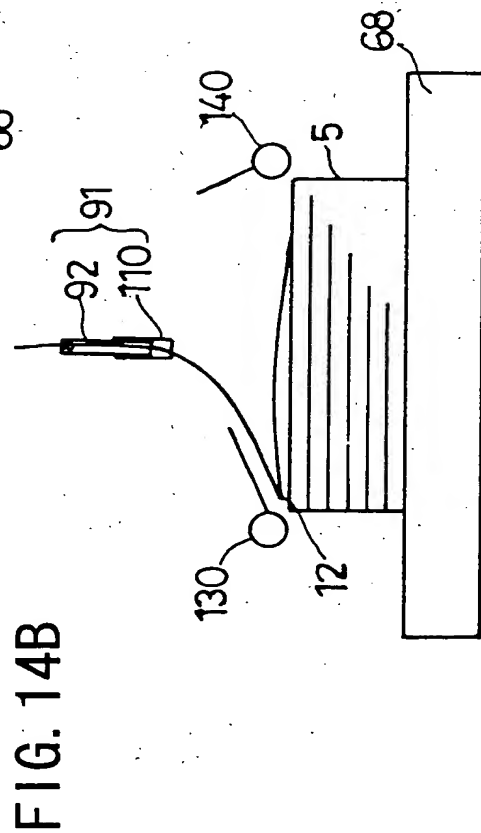


FIG. 14B

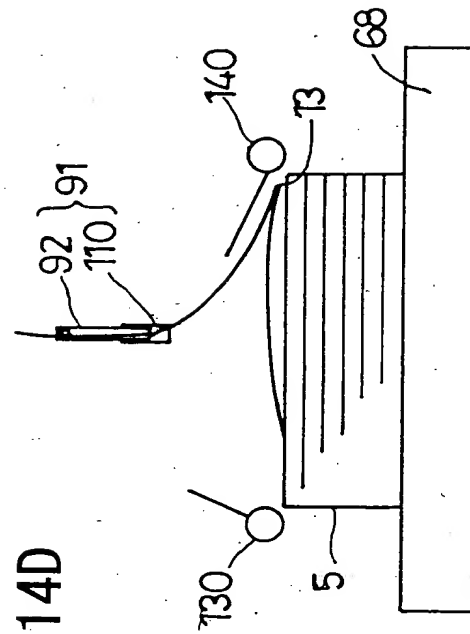


FIG. 14D

FIG.15

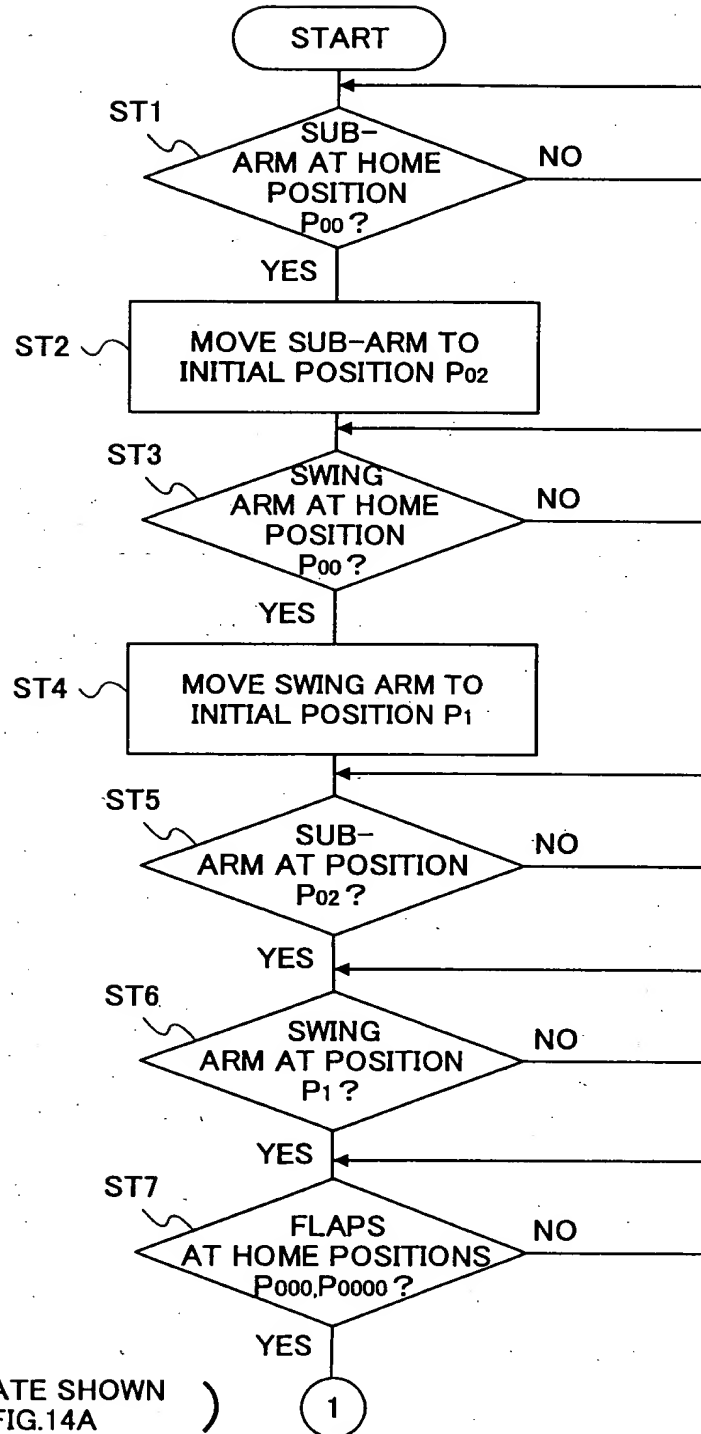


FIG.16

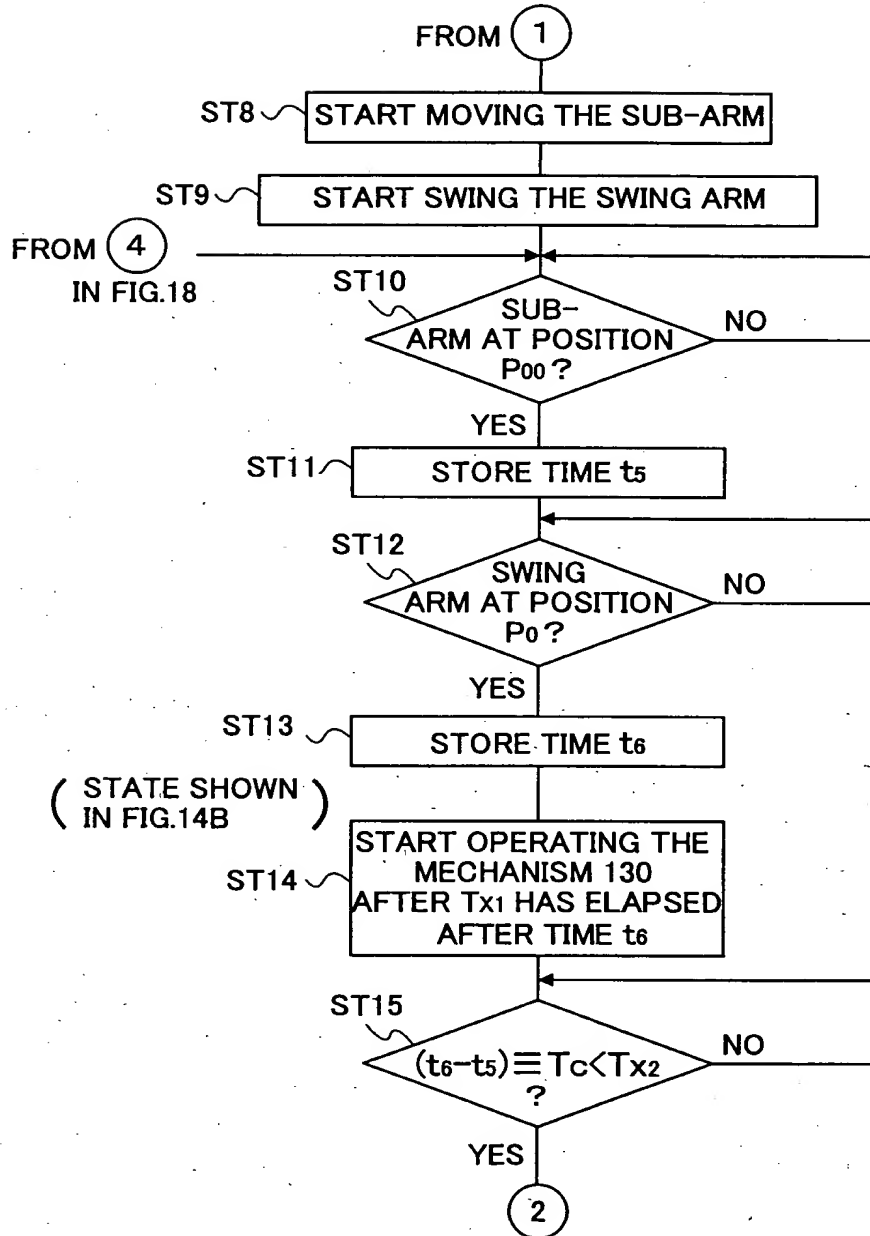


FIG.16

FIG.17

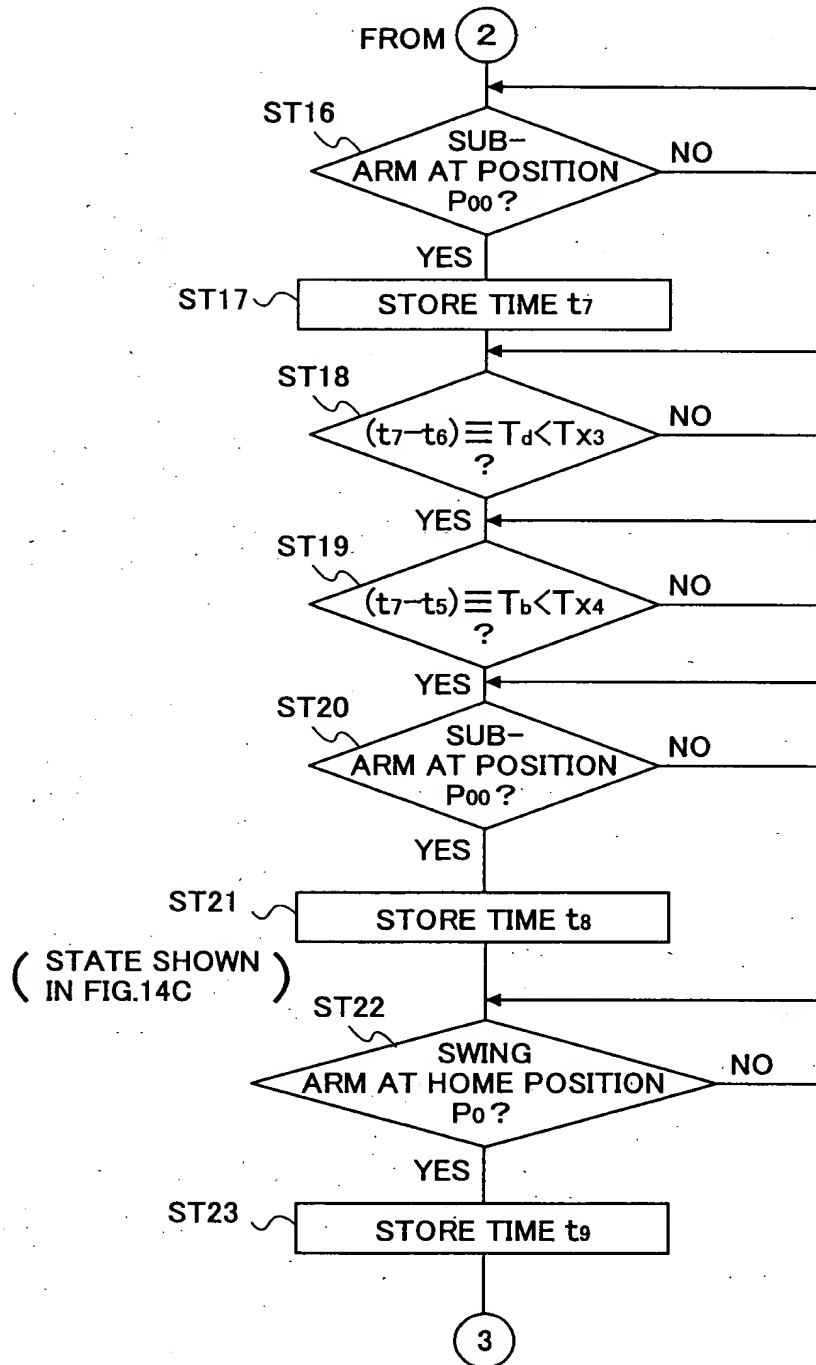
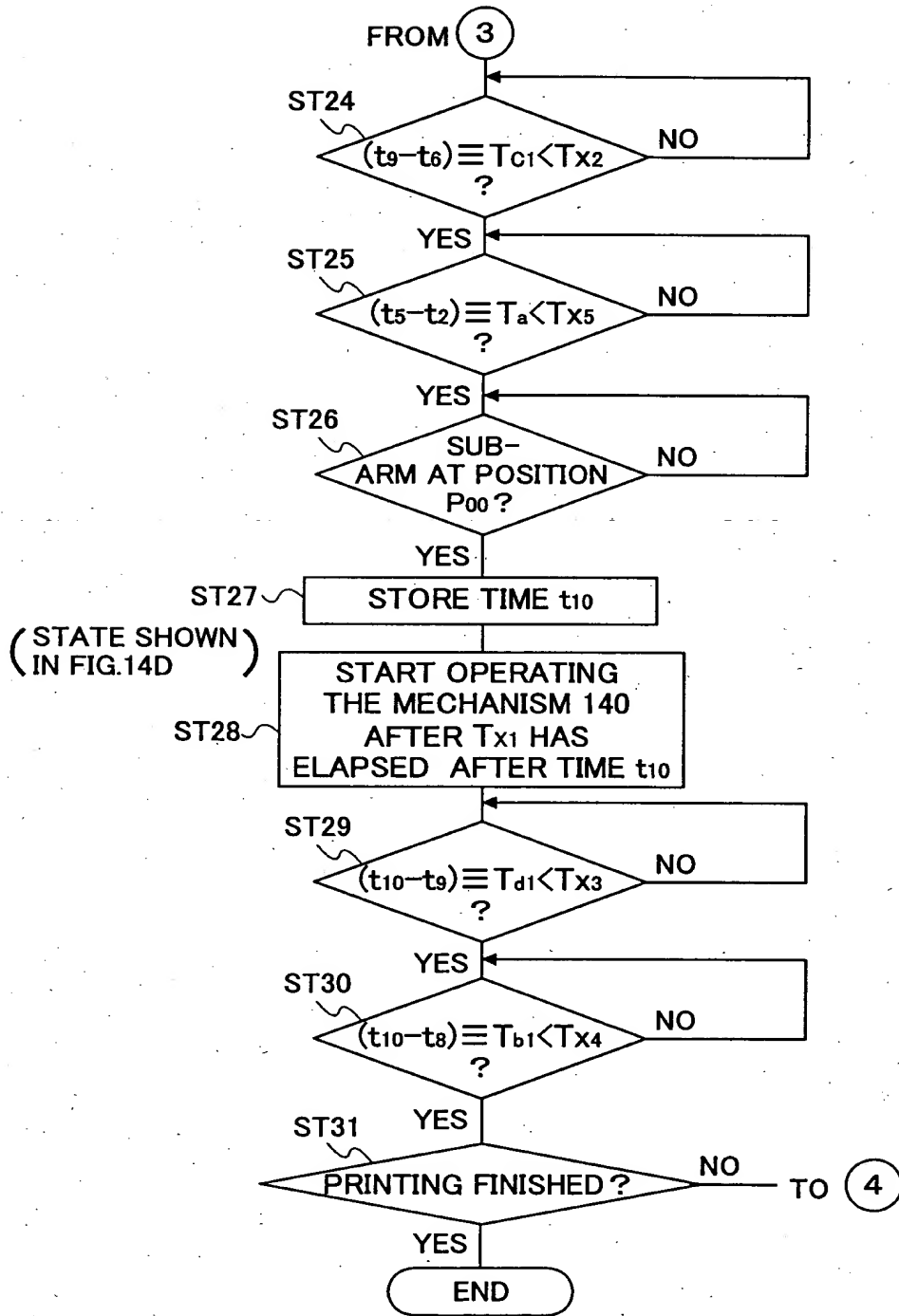


FIG.18



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FIG. 19A

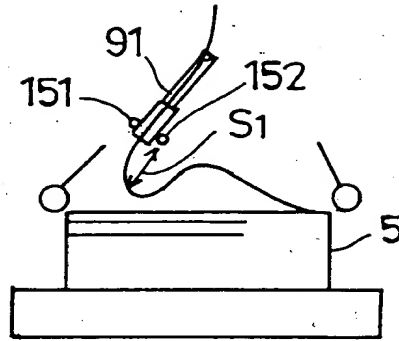


FIG. 19B

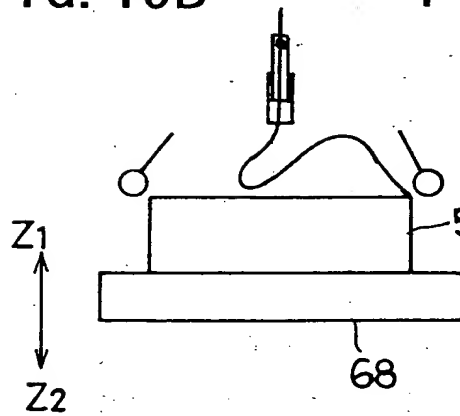


FIG. 19C

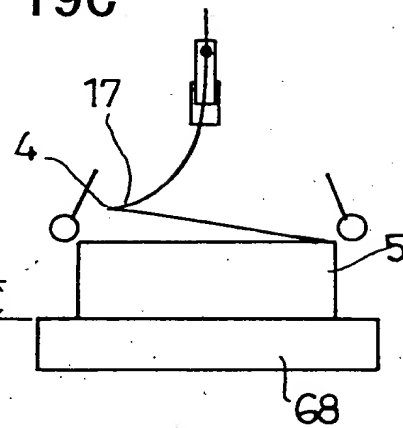


FIG. 19D

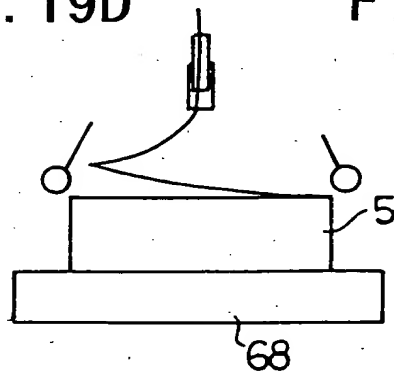


FIG. 19E

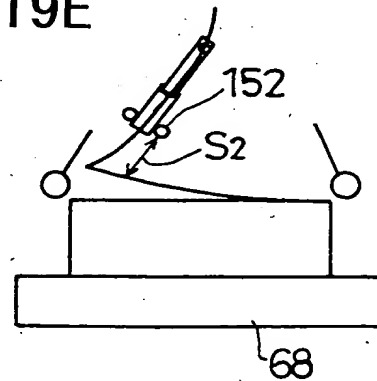


FIG.20

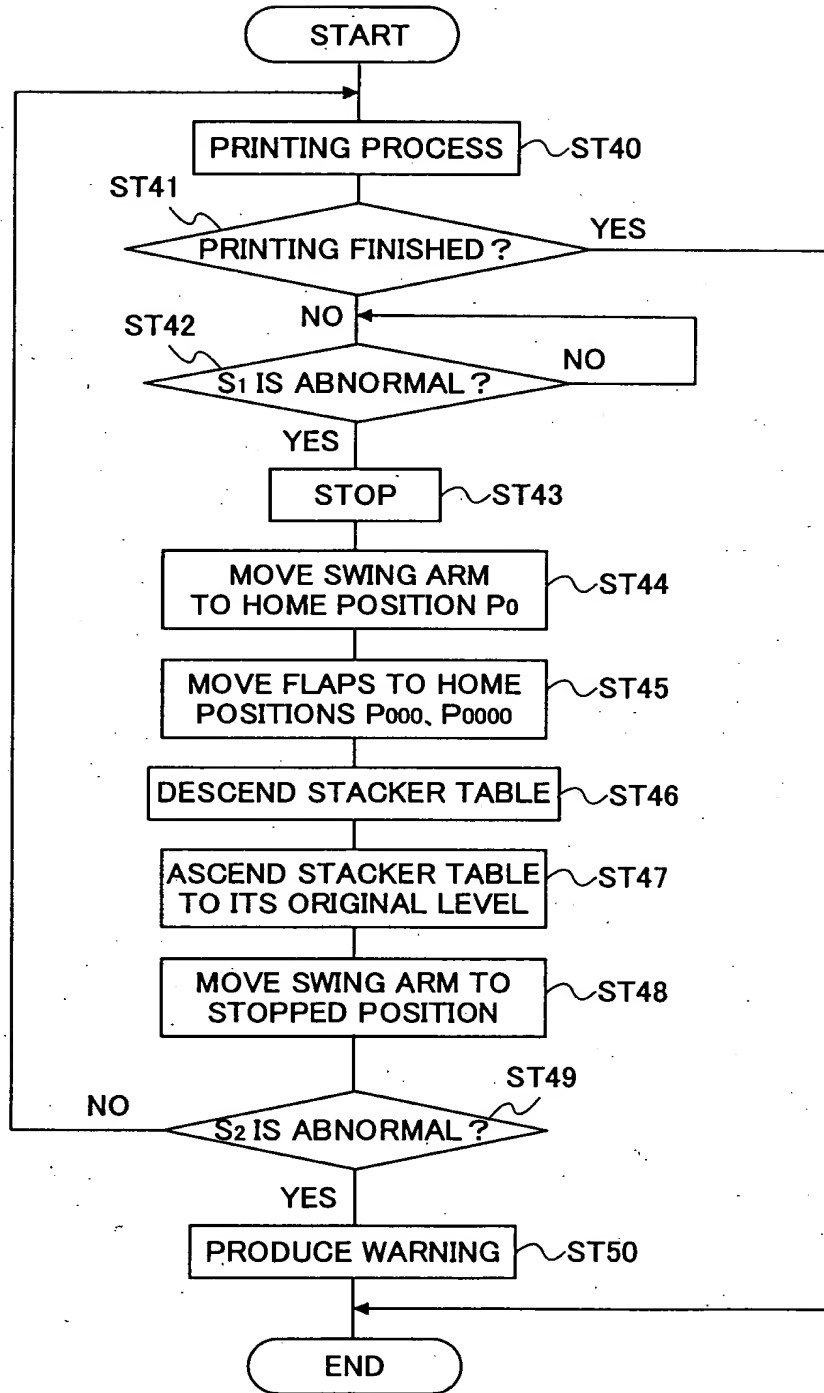


FIG. 20

FIG. 21

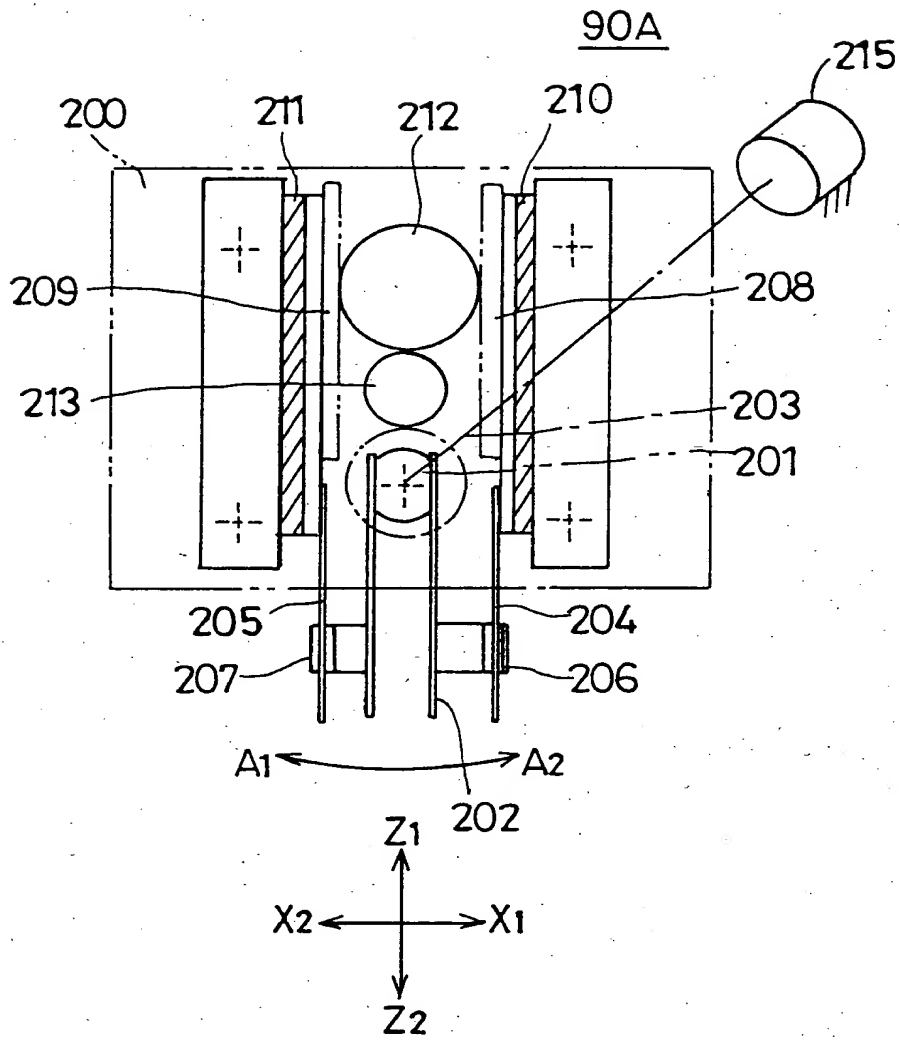


FIG. 22A

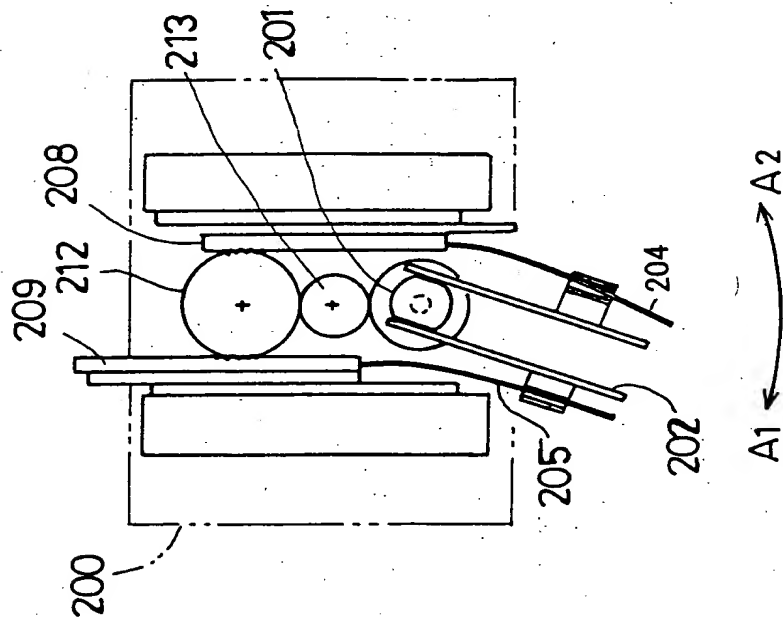


FIG. 22B

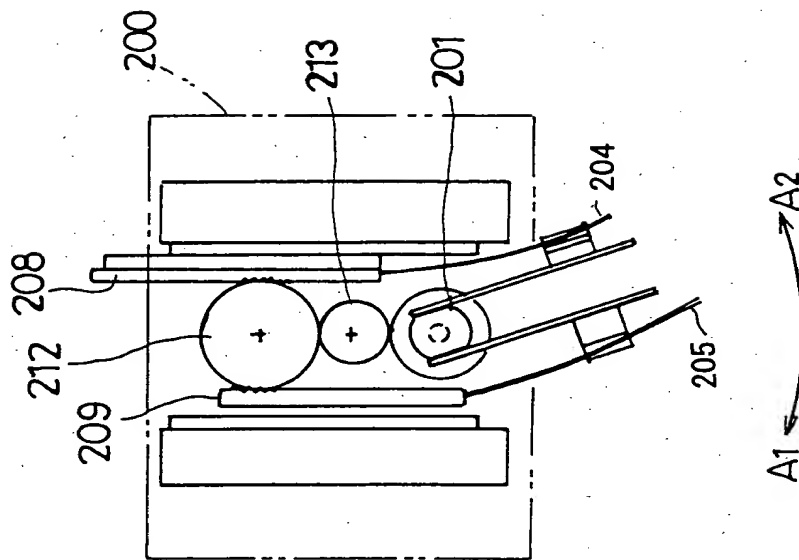


FIG. 23

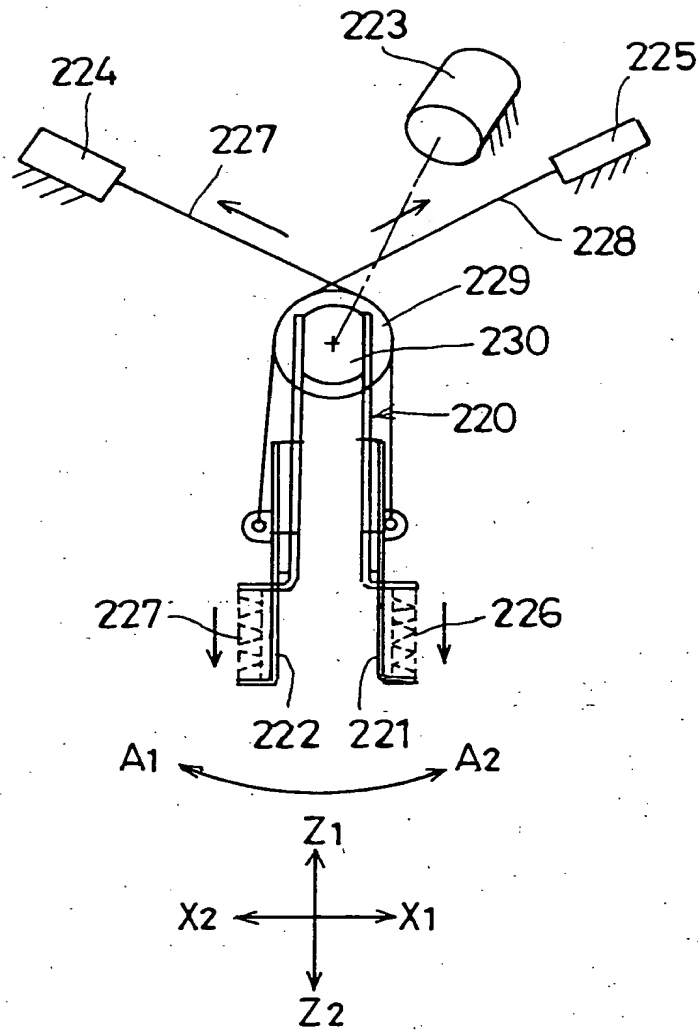


FIG. 24A

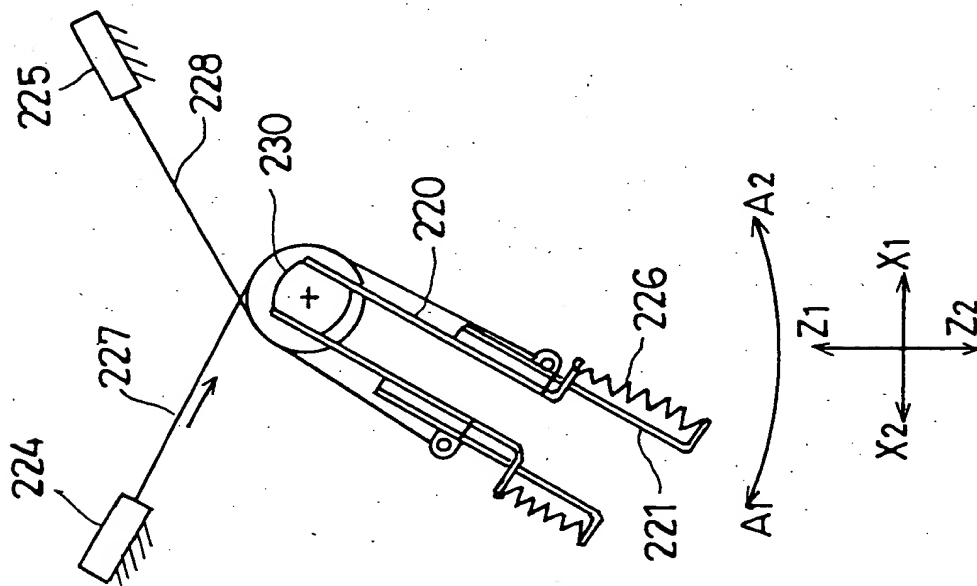


FIG. 24B

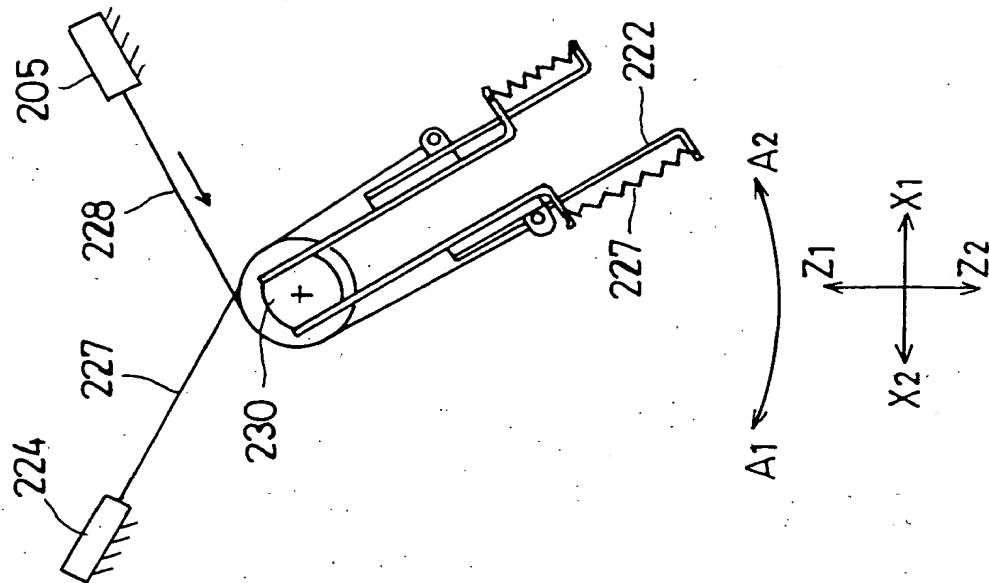


FIG. 25A

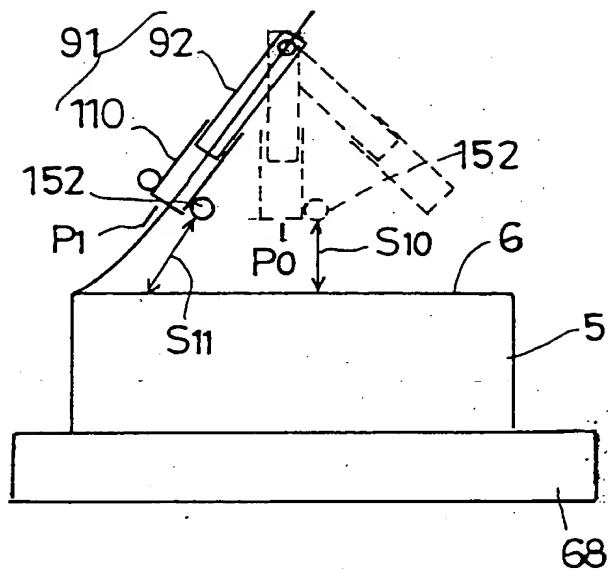


FIG. 25B

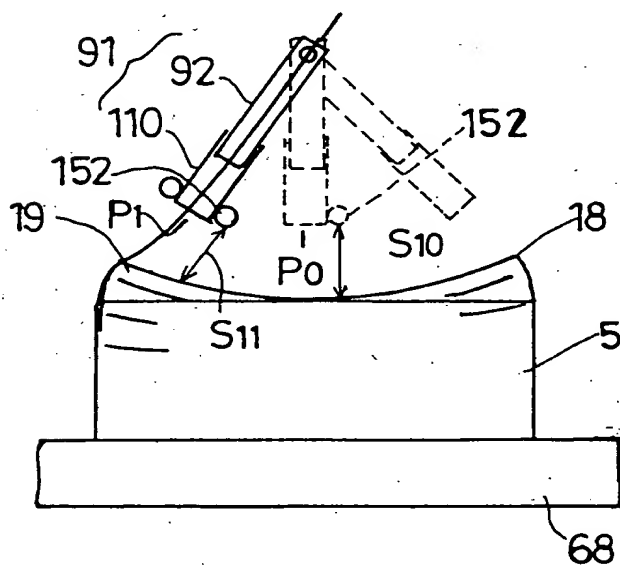


FIG.26A

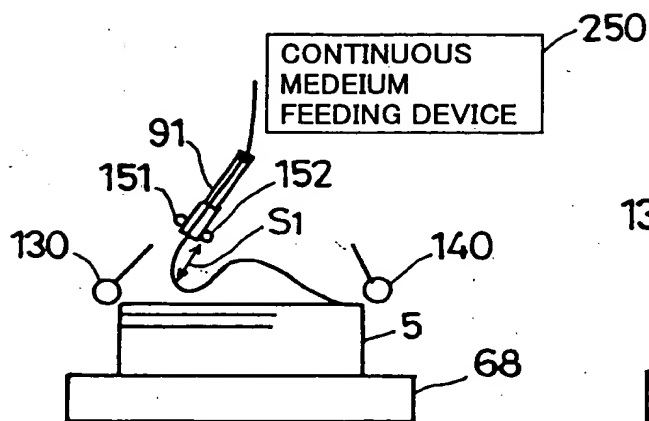


FIG.26B

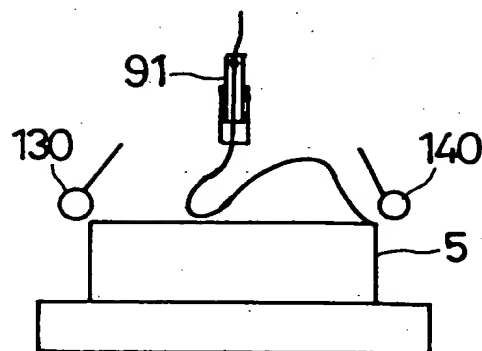


FIG.26C

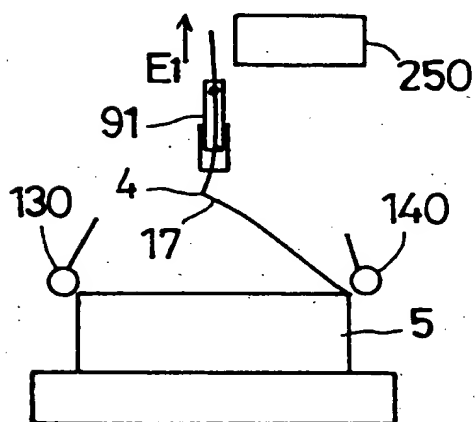


FIG.26D

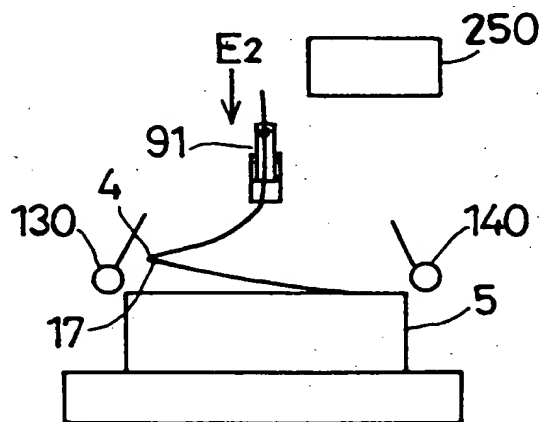


FIG.26E

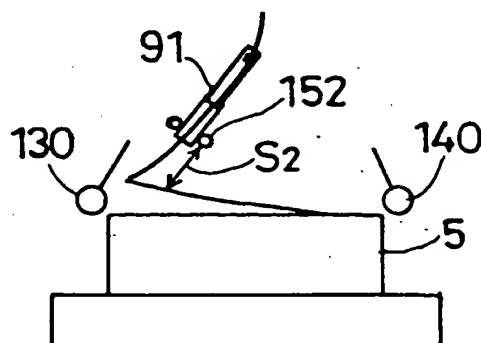
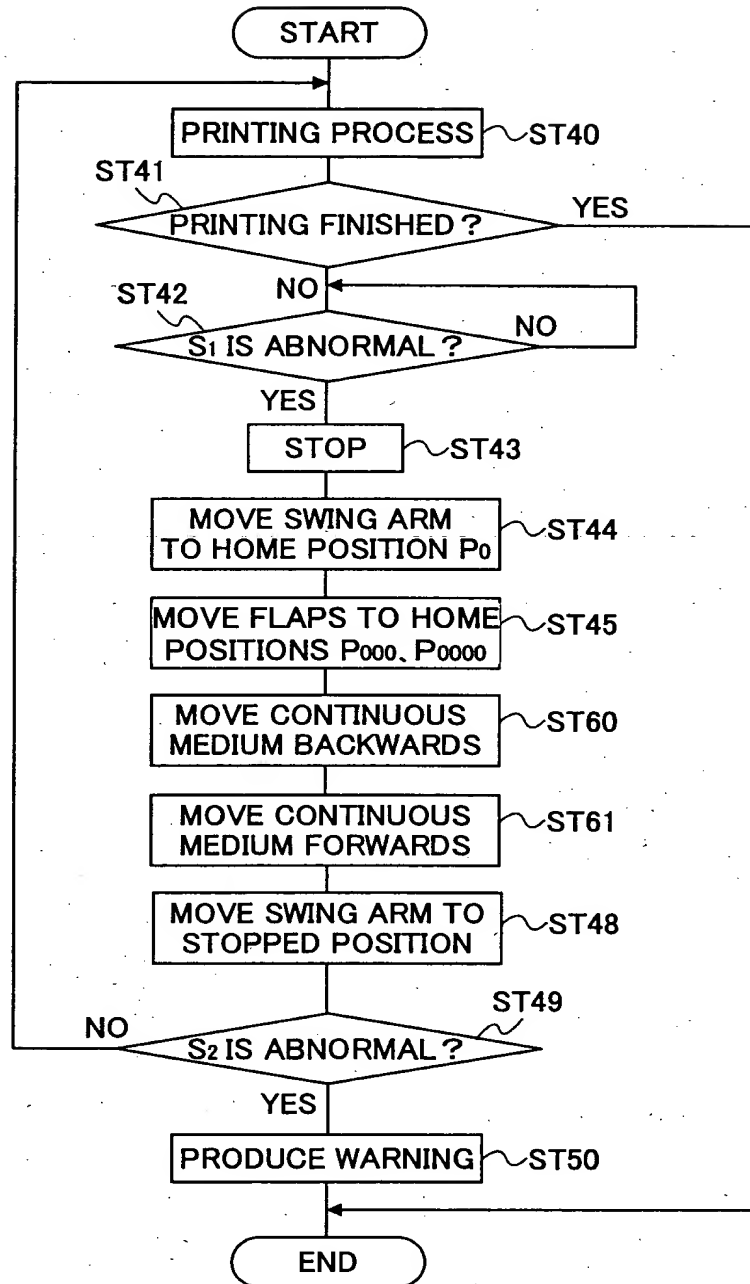


FIG.27



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